



Ministry of
Natural
Resources

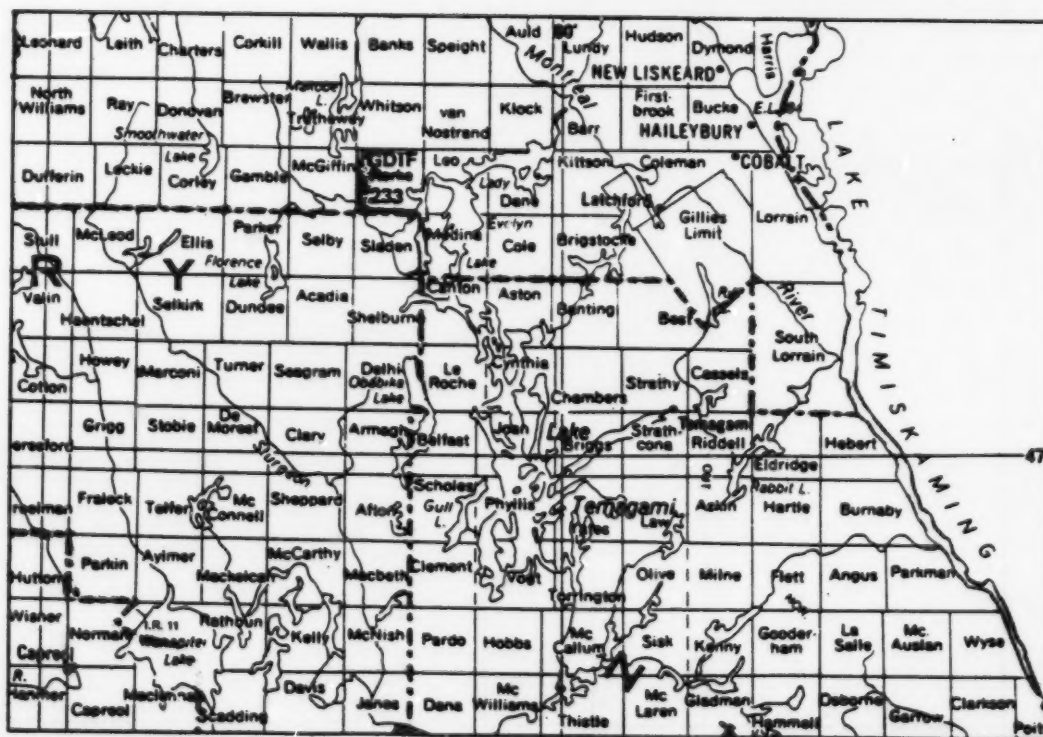
Ministry of
Northern
Affairs

ONTARIO GEOLOGICAL SURVEY
GEOLOGICAL DATA INVENTORY FOLIO
GDIF 233

RORKE TOWNSHIP

DISTRICT OF TIMISKAMING

Compiled by the Staff of
the Resident Geologists Office
Cobalt



LOCATION MAP

Scale 1:1 013 760 or 1 inch to 16 miles

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ACCOMPANYING MAPS

Property Location Map - 1 map

Exploration Data Map

Map Scale 1: 31 680 or 1 inch to ½ mile

CONVERSION FACTORS FOR MEASUREMENTS IN ONTARIO GEOLOGICAL SURVEY PUBLICATIONS

If the reader wishes to convert imperial units to SI (metric) units or SI units to imperial units the following multipliers should be used:

CONVERSION FROM SI TO IMPERIAL

SI Unit Multiplied by Gives

CONVERSION FROM IMPERIAL TO SI

Imperial Unit Multiplied by Gives

LENGTH

1 mm	0.039 37	inches	1 inch	25.4	mm
1 cm	0.393 70	inches	1 inch	2.54	cm
1 m	3.280 84	feet	1 foot	0.304 8	m
1 m	0.049 709 7	chains	1 chain	20.116 8	m
1 km	0.621 371	miles (statute)	1 mile (statute)	1.609 344	km

AREA

1 cm ²	0.155 0	square inches	1 square inch	6.451 6	cm ²
1 m ²	10.763 9	square feet	1 square foot	0.092 903 04	m ²
1 km ²	0.386 10	square miles	1 square mile	2.589 988	km ²
1 ha	2.471 054	acres	1 acre	0.404 685 6	ha

VOLUME

1 cm ³	0.061 02	cubic inches	1 cubic inch	16.387 064	cm ³
1 m ³	35.314 7	cubic feet	1 cubic foot	0.028 316 85	m ³
1 m ³	1.308 0	cubic yards	1 cubic yard	0.764 555	m ³

CAPACITY

1 L	1.759 755	pints	1 pint	0.568 261	L
1 L	0.879 877	quarts	1 quart	1.136 522	L
1 L	0.219 969	gallons	1 gallon	4.546 090	L

MASS

1 g	0.035 273 96	ounces (avdp)	1 ounce (avdp)	28.349 523	g
1 g	0.032 150 75	ounces (troy)	1 ounce (troy)	31.103 476 8	g
1 kg	2.204 62	pounds (avdp)	1 pound (avdp)	0.453 592 37	kg
1 kg	0.001 102 3	tons (short)	1 ton (short)	907.184 74	kg
1 t	1.102 311	tons (short)	1 ton (short)	0.907 184 74	t
1 kg	0.000 984 21	tons (long)	1 ton (long)	1016.046 908 8	kg
1 t	0.984 206 5	tons (long)	1 ton (long)	1.016 046 908 8	t

CONCENTRATION

1 g/t	0.029 166 6	ounce (troy)/ton (short)	1 ounce (troy)/ton (short)	34.285 714 2	g/t
1 g/t	0.583 333 33	pennyweights/ton (short)	1 pennyweight/ton (short)	1.714 285 7	g/t

OTHER USEFUL CONVERSION FACTORS

1 ounce (troy)/ton (short)	20.0	pennyweights/ton (short)
1 pennyweight/ton (short)	0.05	ounce (troy)/ton (short)

One gram(g) per tonne is equivalent to one part per million (1 ppm).

NOTE—Conversion factors which are in bold type are exact. The conversion factors have been taken from or have been derived from factors given in the Metric Practice Guide for the Canadian Mining and Metallurgical Industries published by The Mining Association of Canada in co-operation with the Coal Association of Canada.

DATA SOURCES CHECK LIST

NOTE: The following sources have been searched to compile the data for this area. If no reference data was found the appropriate box is marked 'no'; if reference data was found, the box is marked 'yes'.

All reference data found are included in the following pages. If the box is blank, the data source has not yet been searched. If the box is marked N.A., the source item is Not Applicable to this area and therefore not searched.

SOURCES OF DATA		Data	Initial
1	Resident Geologist's Office Files	No	D.P.A.
2	Assessment Files Research Office, Toronto	No	D.P.A.
3	ODM General Index; 7 volumes	Yes	D.P.A.
4	Catalogue of Airborne Geophysical Surveys (ODM)	No	D.P.A.
5	ODM Mineral Resources Circulars and OGS Mineral Deposits Circulars	No	D.P.A.
6	ODM Industrial Mineral Reports	No	D.P.A.
7	Bibliography of Post Precambrian Theses - Karrow (ODM MP 1)	No	D.P.A.
8	Bibliography of Precambrian Theses - Ginn (ODM MP 2)	No	D.P.A.
9	Newspaper Clippings File	No	D.P.A.
10	GSC Index to Publications	Yes	D.P.A.
11	OGS Index to Published Maps and Reports - MP 77 and Supplements to MP 77	Yes	D.P.A.
12	OGS Index Maps	No	D.P.A.
13	Source Mineral Deposit Records (O.G.S.)	No	D.P.A.
14	Author - Subject Articles File	No	D.P.A.
15	Miscellaneous Papers: ODM & OGS	Yes	D.P.A.
16	ODM Geological Circulars: OGS Study Series	No	D.P.A.
17	ODM Preliminary Reports: ODM Bulletins	No	D.P.A.
18	ODM - OGS Open File Reports	Yes	D.P.A.
19	OGS Northern Ontario Engineering Geology Terrain Studies	Yes	D.P.A.
20	OGS Aggregate Resources Inventory Papers	N.A.	D.P.A.
21	OGS Mineral Potential Maps	No	D.P.A.
22	Theses on File, Cobalt	No	D.P.A.
23	Aerial Photographs on File, Toronto	Yes	D.P.A.

METALS AND MINERALS REFERENCES LIST

Δ anh.	Anhydrite	Δ fu.	Fuchsite	Δ Ni.	Nickel	Δ st.	Stone
Δ ank.	Ankerite	Δ gn.	Galena	Δ Nb.	Niobium	Δ tale.	Talc
Δ anna.	Annabergite	Δ gt.	Garnet	Δ Pd.	Palladium	Δ Te.	Tellurium
Δ ap.	Apatite	Δ gos.	Goethite	Δ peat.	Peat	Δ td.	Tetrahedrite
Δ arg.	Argentite	Δ Au.	Gold	Δ pent.	Pentlandite	Δ th.	Thorite
Δ As.	Arsenic	Δ gf.	Graphite	Δ Pt.	Platinum	Δ Th.	Thorium
Δ asp.	Arsenopyrite	Δ gl.	Gravel	Δ py.	Pyrite	Δ thuc.	Thucholite
Δ atb.	Asbestos	Δ gvp.	Gypsum	Δ pyl.	Pyrochlore	Δ ti.	Titanite
Δ ba.	Barite	Δ hem.	Hematite	Δ pyrl.	Pyrolusite	Δ Ti.	Titanium
Δ be.	Beryl	Δ il.	Ilmenite	Δ po.	Pyrrhotite	Δ tour.	Tourmaline
Δ Bl.	Bismuth	Δ Fe.	Iron	Δ q.	Quartz	Δ trap.	Trap rock
Δ bn.	Bornite	Δ IF.	Iron Formation	Δ qcv.	Quartz carbonate vein	Δ W.	Tungsten
Δ bran.	Brannerite	Δ jas.	Jasper	Δ ra.	Radioactive minerals	Δ uran.	Uraninite
Δ bruc.	Brucite	Δ kaol.	Kaolinite (kaolin)	Δ RE.	Rare Earths	Δ U.	Uranium
Δ Cd.	Cadmium	Δ ky.	Kyanite	Δ sd.	Sand	Δ verm.	Vermiculite
Δ calc.	Calcite	Δ Pb.	Lead	Δ sgl.	Sand and gravel	Δ Y.	Yttrium
Δ carb.	Carbonate	Δ lim.	Limonite	Δ ss.	Sandstone	Δ Zn.	Zinc
Δ cel.	Celestite	Δ Li.	Lithium	Δ scap.	Scapolite	Δ zr.	Zircon
Δ cc.	Chalcocite	Δ mgst.	Magnesite	Δ sh.	Serpentine		
Δ cp.	Chalcopyrite	Δ mag.	Magnetite	Δ sh.	Shale		
Δ ch.	Chert	Δ mc.	Malachite	Δ sid.	Siderite		
Δ clay.	Clay	Δ Mn.	Manganese	Δ si.	Silica		
Δ Co.	Cobalt	Δ mb.	Marble	Δ Ag.	Silver		
Δ cob.	Cobaltite	Δ mar.	Marcasite	Δ sl.	Slate		
Δ cb.	Columbite	Δ ma.	Marl	Δ sm.	Smaltite		
Δ Cu.	Copper	Δ mi.	Mica	Δ sod.	Sodalite		
Δ cor.	Corundum	Δ ml.	Millerite	Δ spec.	Specularite		
Δ dol.	Dolomite	Δ mo.	Molybdenite	Δ sp.	Sphalerite		
Δ ep.	Epidote	Δ Mo.	Molybdenum	Δ spd.	Spodumene		
Δ ery.	Erythrite	Δ mon.	Monazite	Δ staur.	Staurolite		
Δ fel.	Feldspar	Δ ne.	Nephelite (nepheline)	Δ stib.	Stibnite		
Δ fl.	Fluorite (fluorspar)	Δ nc.	Nicolite				

Solid triangles indicate metal and mineral occurrences shown on the accompanying maps or listed in Drillhole Summary

MINERAL OCCURRENCES			Source Mineral Deposit Record	References in OGS Mineral Deposits Circulars & OGS Industrial Mineral Reports	Additional References and/or Remarks
Map Ref. Letter	Name(s)	Mineralization			
	No data available as of December 4, 1984.				

TYPE OF WORK		Numbers below represent the year in which the work was done: e.g., 68 for 1968.																				
EXPLORATION DATA filed at the RESIDENT GEOLOGIST'S OFFICE COBALT	COMPANY/AUTHOR (file number)	No data available as of December 4, 1984.	GEOLOGICAL	GEOCHEMICAL	TRENCHING, STRIPPING	DRILLING	ASSAY DATA	UNDERGROUND WORK	PROSPECTUS, NOTES, CORRESPONDENCE	AIRBORNE MAGNETOMETER	AIRBORNE ELECTROMAGNETIC	AIRBORNE RADIO-METRIC	GROUND MAGNETOMETER	GROUND ELECTROMAGNETIC	GROUND RADIO-METRIC	INDUCED POLARIZATION	SELF POTENTIAL	RESISTIVITY				

GDIF FORM NO. 2

DRILLHOLE SUMMARY		Assay Data Included for	Mineralization Noted in Log	Total Length of Hole	Thickness of Overburden	Initial Dip of Hole	Bearing Azimuth	Date Drilled	Company Drillhole Number
Map Drilling Location Number	Company Name								
	No data available as of December 4, 1984.								

GDIF FORM NO. 3

AIRBORNE GEOPHYSICAL SURVEY DATA

No.	By For	Type of Survey	Flight Altitude	Flight Line Direction	Flight Line Spacing
	No data available as of December 4, 1984.				

GDIF FORM NO. 4

GEOCHEMICAL SURVEY DATA			By	Reference
Map Sample Site Reference Number	Type of Survey	Analysis For		
	No data available as of December 4, 1984.			

GDIF FORM NO.

MISCELLANEOUS DATA

AGE DATING

Site	Method	Material	Reference	Result
	No data available as of December 4, 1984.			

LANDSAT COLOUR PHOTO - NTS 31/M

LS	TR	FR	Date of Imagery	Band	Cycle/Day
2	20	27	13/10/81	C1	136/10

on file in Cobalt office

NEWSPAPER CLIPPINGS FILE

NOTE: A file of newspaper clippings about the companies listed below, who have worked in this area, is maintained in the Regional/Resident Geologist's Office.

No data available as of December 4, 1984.

ODM GENERAL INDEX SEARCH

Words searched: Bessie Lake Maple Mountain
Chris Willis Lake Old Bill Lake
Evelyn River Rorke Township
Handel Lake Tupper Lake
Hobart Lake Willow Island Creek

Index Volume	Listing:	Report Volume	Part	Page
1	Bessie Lake, Montreal river	*16	2	127
	Old Bill Lake, near Bessie Lake Montreal river	*16	2	127
	Maple Mountain Area See also Speight twp. Whitson twp. Silver Mining	*25	1	126
	Rorke Twp., Tim. Iron formation; rocks, see Maple mt.			
8	Maple Mountain Area, Timiskaming, Nipissing & Sudbury Dist. base metals/gold/silver Geology of the area Report on & maps 2256 & 2260, 1973 by K.D. Card, W.H. McIlwaine, & H.D. Meyn iron silver/cobalt uranium Maple Mountain Fault Maple Mtn. area, Timiskaming Dist.	GR 106 GR 106 GR 106 GR 106 GR 106 GR 106		90-100 100-109 61, 65- 89 110-117 53, 55

ODM GENERAL INDEX SEARCH

Words searched:

Index Volume	Listing:	Report Volume	Part	Page
8	Maple Mountain Operation, Sudbury & Timiskaming Dist. summary of field work, 1969 by K.D. Card	MP 32		38-41
	summary of field work (biogeochemical), 1969, by W.J. Wolfe	MP 32		41-42
	Maple Mountain Syncline Maple Mtn. area, Timiskaming Dist.	GR 106		53, 54
	Rorke Twp., Timiskaming Dist. Geology of the Maple Mtn. area	GR 106		
9	Maple Mountain Area, Nipissing, Sudbury & Timiskaming Dist. Report (quaternary) & map 5023 on, 1980 by M.A. Roed * Out of Print	NOEGTS 89		

Author	Date	SELECTED REFERENCES		Reference	Map Scales and/or Report Pages
		Title			
Card, K.D. et al	1971	<u>REGIONAL GEOLOGICAL COMPILATION MAPS</u> Sudbury-Cobalt Sheet; Algoma, Manitoulin, Nipissing, Parry Sound, Sudbury & Timiskaming Districts, Ontario		ODMNA Map 2188	1:253 440
	1977	Sudbury-Cobalt, NTS 31L/W, 31M/SW, 41I, 41P/S, Sudbury & AL 5 Districts, Ontario		OGS Map 2361	1:253 440
GSC-OGS	1956	<u>GEOPHYSICAL MAPS</u> Lady Evelyn Lake, aeromagnetic		GSC Map 281G	
	1965	Lady Evelyn Lake, Ontario, NTS 41P/8		GSC Map 1504G	1:63 360
	1979	Airborne gamma ray spectrometry maps & profiles, NTS 41P, Sudbury & 2 AL Districts, Ontario		OGS Maps 80372-80410	1:250 000
Gupta, V.K., Wadge, D.R.	1980	Bouger Gravity and Generalized Geological Map, Temagami-Englehart Area, Districts of Timiskaming, Nipissing & Sudbury		OGS Map P. 2296	1:100 000
	1981	Temiskaming-Kapuskasing Region Magnetic Anomaly Map		GSC Map 1563A	1:1 000 000
Gupta, V.K., Grant, F.S., Boud, A.	1981	A Gravity Study in North-Central Ontario, Districts of Sudbury, Nipissing and Timiskaming; in Summary of Field Work, 1981, edited by J. Wood et al, Ontario Geological Survey		OGS MP 100	No. 26 pp. 160-164

SELECTED REFERENCES			Reference	Map Scales and/or Report Pages
Author	Date	Title		
Gupta, V.K.	1982	<u>GEOPHYSICAL MAPS</u> Gravity and Aeromagnetic Studies in North-Central Ontario: A Progress Report; in Summary of Field Work, 1982, edited by J. Wood et al, Ontario Geological Survey	OGS MP 106, No. 24	pp. 165-167
	1983	Interpretation of Gravity Data from New Liskeard, Ontario; Ontario Geoscience Research Grant Program, Grant No. 109	OGS OFR 5440	
	GSC	1984	Sudbury, Ontario and Quebec, INW NL 16/17 Magnetic Anomaly Map Earth Physics Branch Gravity Map Series Aeromagnetic	GSC Map NL 16/17-M EPR Maps No. 84 and 134 MNR Map 7076G
Roed, M.A.		<u>SURFICIAL, PLEISTOCENE, TERRAIN ENGINEERING</u>		
	1951	Maple Mountain, Ontario, topographic	NTS 41P/SE	1:126 720
	1976	Lady Evelyn Lake, Ontario, topographic	NTS 41P/8	1:50 000
	1977	Sudbury, topographic	NTS 41P	1:250 000
	1979	Maple Mountain, NTS 41P/SE	NOEGTS 89 OGS Map 5023	1:100 000
	1982	Ontario Basic Map Sheets	MNR Maps 20 17 5400 52400 20 17 5500 52400 20 17 5400 52500 20 17 5500 52500	1:20 000

SELECTED REFERENCES		Date	Author	Title	Reference	Map Scales and/or Report Pages
				<u>SURFICIAL, PLEISTOCENE, TERRAIN ENGINEERING</u> Claim Map, Rorke Twp.	MNR Map Plan No. M-246	1" = 40 ch.
		1977	Springer, J.	<u>MINERAL POTENTIAL</u> Ontario Mineral Potential, Gogama Sheet & Part of Ville Marie sheet, NTS 41P, 31M/W, Timiskaming & Sudbury Districts, Ontario	OGS Map P. 1514	1:250 000
				<u>GEOCHEMICAL</u> No data available as of December 4, 1984.		
		1899	Barlow, A.E.	<u>GEOLOGICAL REPORTS AND MAPS</u> Report on the Geology and Natural Resources of the Area Included by the Nipissing and Timiskaming Map Sheets, Comprising Portions of the District of Nipissing, Ontario and of the County of Pontiac, Quebec	*GSC Annual Report, vol. X, pt. I *GSC Map 599	
		1906	Miller, W.G.	The Cobalt-Nickel Arsenides and Silver Deposits of Temiskaming, Ontario	*OBM Annual Report, 1905, vol. 14, pt. 2	

Author	Date	SELECTED REFERENCES		Reference	Map Scales and/or Report Pages
		Title			
		GEOLOGICAL REPORTS AND MAPS			
Barlow, A.E.	1908	Second Edition of a Report on the Geology and Natural Resources of the Area Included by the Nipissing and Timiskaming Map Sheets, Comprising Portions of the District of Nipissing, Ontario and of the County of Pontiac, Quebec		*GSC Separate Report 962	
Miller, W.G.	1908	The Cobalt-Nickel Arsenides and Silver Deposits of Temiskaming (3rd Edition), Other Temiskaming Cobalt Areas, part of Montreal River and Temagami Forest Reserve		*OBM Annual Report, 1907, vol. 16, pt. 2, ch. 3 OBM Map 16f	pp. 117-128 1:63 360
Collins, W.H.	1910	The Florence Lake and Montreal River District, Ontario		*GSC Summary Report, 1909	pp. 168-172
Knight, C.W.	1913	The Cobalt-Nickel Arsenides and Silver Deposits of Temiskaming (4th Edition), The Outlying Cobalt-Silver Areas, Montreal River and Temagami Forest Reserve, Ontario		*OBM Annual Report, 1910, vol. 19, pt. 2, ch. 2	pp. 155-164
Collins, W.H.	1914	The Geology of the Gowganda Mining Division		*GSC Memoir 33 *GSC Map 64A	pp. 1-46 1:63 360
Burrows, A.G.	1922	Gowganda & Other Silver Areas, 1. Gowganda Silver Area (4th Report), Timiskaming District, Ontario		ODM Annual Report, 1921, vol. 30, pt. 3 ODM Map 30b	pp. 79-104
Todd, E.W.	1926	Anima-Nipissing Lake Area, Timiskaming & Nipissing District, Ontario		ODM Annual Report, 1926, vol. 35, pt. 3 ODM Map 35c	1:63 360

Author	Date	SELECTED REFERENCES		Reference	Map Scales and/or Report Pages
		Title			
		GEOLOGICAL REPORTS AND MAPS			
Donovan, J.F.	1965	Maple Mountain Sheet, Districts of Sudbury, Timiskaming and Nipissing, Ontario		ODM Map P. 301	1:126 720
Roscoe, S.M.	1969	Huronian Rocks and Uraniferous Conglomerates in the Canadian Shield		GSC Paper 68-40	205 p.
Card, K.D., McIlwaine, W.H., Meyn, H.D.	1970	Operation Maple Mountain, Districts of Timiskaming, Nipissing & Sudbury, Ontario		ODMNA OFR 5050 ODM Map P. 585	1:63 360
Card, K.D., McIlwaine, W.H., Meyn, H.D.	1973	Geology of the Maple Mountain Area, Timiskaming, Nipissing & Sudbury Districts, Ontario		ODM GR 106 ODM Map 2257	1:63 360
Wood, J.	1979	Regional Geology of the Cobalt Embayment, Districts of Sudbury, Nipissing and Timiskaming; in Summary of Field Work, 1979, edited by V.G. Milne et al, Ontario Geological Survey		OGS MP 90	No. 18 pp. 79-81
Wood, J.	1980	Regional Geology of the Cobalt Embayment, Districts of Sudbury, Nipissing & Timiskaming; in Summary of Field Work, 1980, edited by V.G. Milne et al, Ontario Geological Survey		OGS MP 96	No. 14 pp. 61-63
Colvine, A.C.	1981	Reconnaissance of the Lorrain Formation, Northern Cobalt Embayment; in Summary of Field Work, 1981, edited by J. Wood et al, Ontario Geological Survey		OGS MP 100	No. 29 pp. 187-189
Hunter & Assoc. Ltd.	1984	Peat and Peatland Evaluation of the New Liskeard Area		OGS OFR 5486, Vol. 1, 2 & 3	

Author	Date	SELECTED REFERENCES		Reference	Map Scales and/or Report Pages
		Title			
		JOURNAL ARTICLES, THESES, TECHNICAL REPORTS No data available as of December 4, 1984. * Out of Print			

The exploration data map shows only the most important minerals found at each site. All the minerals noted are listed in the mineral occurrences or the drill hole data.

On the maps, only areas for which work has been submitted to the Ministry are shown and thus a company may hold, or have held in the past, more ground than is shown.

No present or past producers.

The township was closed to staking in 1978 due to the Bear Island Indian Caution.

AIR PHOTOS - on file in Toronto

Only 1977 photos are available for viewing at the Public Service Centre, Rm. 1640, Whitney Block.

Photos can also be ordered from here for the years 1946, 1958 and 1970 and 1978.

Year	Roll	Strip	Photo
1946	51	115	46-53
	51	116	38-46
	50	117	24-32
	60	118	72-80
	59	119	99-107
1958	19	4717	123-130
	19	4716	57-63
	19	4715	125-131
	19	4714	191-197
1970	30	4717	256-263
	30	4716	170-176
	41	4715	192
	17	4715	48-54
	6	4714	23-30
	3	4713	88-94
1978	3	4717	122-129
	3	4716	204-211
	4	4715	108-114
	79	4714	35-41



Ministry of
Natural
Resources

Ministry of
Northern
Affairs

ONTARIO GEOLOGICAL SURVEY

PROPERTY LOCATION MAP

GEOLOGICAL DATA INVENTORY FOLIO 233

(Map 1 of 1)

RORKE TOWNSHIP

DISTRICT OF TIMISKAMING

Scale 1:31 680

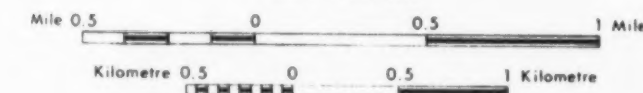


ONTARIO GEOLOGICAL SURVEY
PROPERTY LOCATION MAP
GEOLOGICAL DATA INVENTORY FOLIO 233
(Map 1 of 1)

RORKE TOWNSHIP

DISTRICT OF TIMISKAMING

Scale 1:31 680



McGIFFIN TOWNSHIP

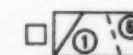
LEO TOWNSHIP



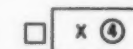
SUDBURY DISTRICT

SLADEN TOWNSHIP

EXPLORATION DATA FILE AREAS



Reference number is always inside work area outlined.
See listing in text pages.



Small area of exploration.